
Sequence Listing could not be accepted due to errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)

217-9197 (toll free).

Reviewer: Keisha Douglas

Timestamp: [year=2008; month=7; day=10; hr=16; min=7; sec=19; ms=215;]

Reviewer Comments:

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<211> 0

<212> PRT

<213> Homo sapiens

<400> 52

<210> 53

<211> 0

<212> PRT

<213> Homo sapiens

<400> 53

Per the above, sequence id# 52 and 53 is invalid, no amino acid codings appear. Please also insert mandatory responses for numeric identifier <211> for both sequences. Please check the remaining sequences for similar errors.

Validated By CRFValidator v 1.0.3

Application No: 10573944 Version No: 1.0

Input Set:

Output Set:

Started: 2008-06-05 16:42:23.903

Finished: 2008-06-05 16:42:25.480

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 577 ms

Total Warnings: 0

Total Errors: 2

No. of SeqIDs Defined: 97

Actual SeqID Count: 97

Erro	or code	Error Description										
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SEQUENCE LISTING

SEQUENCE LISTING
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<120> Methods for Altering Hematopoietic Progenitor Cell Adhesion, Differentiation, and Migration
<130> UCSD-10834
<140> 10573944 <141> 2008-06-05
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Asn Thr Leu Phe Gly Tyr Ser Val Val Leu His Ser His Gly Ala Asn 50 55 60
Arg Trp Leu Leu Val Gly Ala Pro Thr Ala Asn Trp Leu Ala Asn Ala 65 70 75 80
Ser Val Ile Asn Pro Gly Ala Ile Tyr Arg Cys Arg Ile Gly Lys Asn 85 90 95
Pro Gly Gln Thr Cys Glu Gln Leu Gln Leu Gly Ser Pro Asn Gly Glu 100 105 110
Pro Cys Gly Lys Thr Cys Leu Glu Glu Arg Asp Asn Gln Trp Leu Gly 115 120 125

Val Thr Leu Ser Arg Gln Pro Gly Glu Asn Gly Ser Ile Val Thr Cys 130 135 140

Gly His	Arg	Trp	Lys	Asn 150	Ile	Phe	Tyr	Ile	Lys 155	Asn	Glu	Asn	Lys	Leu 160
Pro Thr	Gly	Gly	Cys 165	Tyr	Gly	Val	Pro	Pro 170	Asp	Leu	Arg	Thr	Glu 175	Leu
Ser Lys	Arg	Ile 180	Ala	Pro	Cys	Tyr	Gln 185	Asp	Tyr	Val	Lys	Lys 190	Phe	Gly
Glu Asn	Phe 195	Ala	Ser	Суз	Gln	Ala 200	Gly	Ile	Ser	Ser	Phe 205	Tyr	Thr	Lys
Asp Leu 210		Val	Met	Gly	Ala 215	Pro	Gly	Ser	Ser	Tyr 220	Trp	Thr	Gly	Ser
Leu Phe	Val	Tyr	Asn	Ile 230	Thr	Thr	Asn	Lys	Tyr 235	Lys	Ala	Phe	Leu	Asp 240
Lys Gln	Asn	Gln	Val 245	Lys	Phe	Gly	Ser	Tyr 250	Leu	Gly	Tyr	Ser	Val 255	Gly
Ala Gly	His	Phe 260	Arg	Ser	Gln	His	Thr 265	Thr	Glu	Val	Val	Gly 270	Gly	Ala
Pro Gln	His 275	Glu	Gln	Ile	Gly	Lys 280	Ala	Tyr	Ile	Phe	Ser 285	Ile	Asp	Glu
Lys Glu 290		Asn	Ile	Leu	His 295	Glu	Met	Lys	Gly	Lys 300	Lys	Leu	Gly	Ser
Tyr Phe	Gly	Ala	Ser	Val 310	Суз	Ala	Val	Asp	Leu 315	Asn	Ala	Asp	Gly	Phe 320
Ser Asp	Leu	Leu	Val 325	Gly	Ala	Pro	Met	Gln 330	Ser	Thr	Ile	Arg	Glu 335	Glu
Gly Arg		340		_			345					350		
Ala Met	Glu 355	Thr	Asn	Leu	Val	Gly 360	Ser	Asp	Lys	Tyr	Ala 365	Ala	Arg	Phe

Gly	Glu 370	Ser	Ile	Val	Asn	Leu 375	Gly	Asp	Ile	Asp	Asn 380	Asp	Gly	Phe	Glu
Asp 385	Val	Ala	Ile	Gly	Ala 390	Pro	Gln	Glu	Asp	Asp 395	Leu	Gln	Gly	Ala	Ile 400
Tyr	Ile	Tyr	Asn	Gly 405	Arg	Ala	Asp	Gly	Ile 410	Ser	Ser	Thr	Phe	Ser 415	Gln
Arg	Ile	Glu	Gly 420	Leu	Gln	Ile	Ser	Lys 425	Ser	Leu	Ser	Met	Phe 430	Gly	Gln
Ser	Ile	Ser 435	Gly	Gln	Ile	Asp	Ala 440	Asp	Asn	Asn	Gly	Tyr 445	Val	Asp	Val
Ala	Val 450	Gly	Ala	Phe	Arg	Ser 455	Asp	Ser	Ala	Val	Leu 460	Leu	Arg	Thr	Arg
Pro 465	Val	Val	Ile	Val	Asp 470	Ala	Ser	Leu	Ser	His 475	Pro	Glu	Ser	Val	Asn 480
Arg	Thr	Lys	Phe	Asp 485	Суз	Val	Glu	Asn	Gly 490	Trp	Pro	Ser	Val	Cys 495	Ile
Asp	Leu	Thr	Leu 500	Суз	Phe	Ser	Tyr	Lys 505	Gly	Lys	Glu	Val	Pro 510	Gly	Tyr
Ile	Val	Leu 515	Phe	Tyr	Asn	Met	Ser 520	Leu	Asp	Val	Asn	Arg 525	Lys	Ala	Glu
Ser	Pro 530	Pro	Arg	Phe	Tyr	Phe 535	Ser	Ser	Asn	Gly	Thr 540	Ser	Asp	Val	Ile
Thr 545	Gly	Ser	Ile	Gln	Val 550	Ser	Ser	Arg	Glu	Ala 555	Asn	Cys	Arg	Thr	His 560
Gln	Ala	Phe	Met	Arg 565	Lys	Asp	Val	Arg	Asp 570	Ile	Leu	Thr	Pro	Ile 575	Gln
Ile	Glu	Ala	Ala 580	Tyr	His	Leu	Gly	Pro 585	His	Val	Ile	Ser	Lys 590	Arg	Ser

Thr	Glu	Glu 595	Phe	Pro	Pro	Leu	Gln 600	Pro	Ile	Leu	Gln	Gln 605	Lys	Lys	Glu
Lys	Asp 610	Ile	Met	Lys	Lys	Thr 615	Ile	Asn	Phe	Ala	Arg 620	Phe	Суз	Ala	His
Glu 625	Asn	Суз	Ser	Ala	Asp 630	Leu	Gln	Val	Ser	Ala 635	Lys	Ile	Gly	Phe	Leu 640
Lys	Pro	His	Glu	Asn 645	Lys	Thr	Tyr	Leu	Ala 650	Val	Gly	Ser	Met	Lys 655	Thr
Leu	Met	Leu	Asn 660	Val	Ser	Leu	Phe	Asn 665	Ala	Gly	Asp	Asp	Ala 670	Tyr	Glu
Thr	Thr	Leu 675	His	Val	Lys	Leu	Pro 680	Val	Gly	Leu	Tyr	Phe 685	Ile	Lys	Ile
Leu	Glu 690	Leu	Glu	Glu	Lys	Gln 695	Ile	Asn	Cys	Glu	Val 700	Thr	Asp	Asn	Ser
Gly 705	Val	Val	Gln	Leu	Asp 710	Cys	Ser	Ile	Gly	Tyr 715	Ile	Tyr	Val	Asp	His 720
Leu	Ser	Arg	Ile	Asp 725	Ile	Ser	Phe	Leu	Leu 730	Asp	Val	Ser	Ser	Leu 735	Ser
Arg	Ala	Glu	Glu 740	Asp	Leu	Ser	Ile	Thr 745	Val	His	Ala	Thr	Cys 750	Glu	Asn
Glu	Glu	Glu 755	Met	Asp	Asn	Leu	Lys 760	His	Ser	Arg	Val	Thr 765	Val	Ala	Ile
Pro	Leu 770	Lys	Tyr	Glu	Val	Lys 775	Leu	Thr	Val	His	Gly 780	Phe	Val	Asn	Pro
Thr 785	Ser	Phe	Val	Tyr	Gly 790	Ser	Asn	Asp	Glu	Asn 795	Glu	Pro	Glu	Thr	Cys 800
Met	Val	Glu	Lys	Met 805	Asn	Leu	Thr	Phe	His 810	Val	Ile	Asn	Thr	Gly 815	Asn

Ser Met Ala Pro Asn Val Ser Val Glu Ile Met Val Pro Asn Ser Phe

820 825 830

Ser Pro Gln Thr Asp Lys Leu Phe Asn Ile Leu Asp Val Gln Thr Thr 835 840 845

Thr Gly Glu Cys His Phe Glu Asn Tyr Gln Arg Val Cys Ala Leu Glu 850 855 860

Gln Gln Lys Ser Ala Met Gln Thr Leu Lys Gly Ile Val Arg Phe Leu 865 870 875 880

Ser Lys Thr Asp Lys Arg Leu Leu Tyr Cys Ile Lys Ala Asp Pro His 885 890 895

Cys Leu Asn Phe Leu Cys Asn Phe Gly Lys Met Glu Ser Gly Lys Glu 900 905 910

Ala Ser Val His Ile Gln Leu Glu Gly Arg Pro Ser Ile Leu Glu Met 915 920 925

Asp Glu Thr Ser Ala Leu Lys Phe Glu Ile Arg Ala Thr Gly Phe Pro 930 935 940

His Val Leu Leu Glu Gly Leu His His Gln Arg Pro Lys Arg Tyr Phe 965 970 975

Thr Ile Val Ile Ile Ser Ser Ser Leu Leu Gly Leu Ile Val Leu 980 985 990

Leu Leu Ile Ser Tyr Val Met Trp Lys Ala Gly Phe Phe Lys Arg Gln 995 1000 1005

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<213> Homo sapiens

<400> 2

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Lys Ser Cys Gly Glu Cys Ile Gln Ala Gly Pro Asn Cys Gly Trp Cys 35 40 45

Thr Asn Ser Thr Phe Leu Gln Glu Gly Met Pro Thr Ser Ala Arg Cys
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Asp Asp Leu Glu Ala Leu Lys Lys Lys Gly Cys Pro Pro Asp Asp Ile 65 70 75 80

Glu Asn Pro Arg Gly Ser Lys Asp Ile Lys Lys Asn Lys Asn Val Thr 85 90

Asn Arg Ser Lys Gly Thr Ala Glu Lys Leu Lys Pro Glu Asp Ile His 100 105 110

Gln Ile Gln Pro Gln Gln Leu Val Leu Arg Leu Arg Ser Gly Glu Pro 115 120 125

Gln Thr Phe Thr Leu Lys Phe Lys Arg Ala Glu Asp Tyr Pro Ile Asp 130 135 140

Leu Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu Glu
145 150 155 160

Asn Val Lys Ser Leu Gly Thr Asp Leu Met Asn Glu Met Arg Arg Ile 165 170 175

Thr Ser Asp Phe Arg Ile Gly Phe Gly Ser Phe Val Glu Lys Thr Val 180 185 190

Met Pro Tyr Ile Ser Thr Thr Pro Ala Lys Leu Arg Asn Pro Cys Thr 195 200 205

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Ile	Ser	Gly	Asn	Leu 245	Asp	Ser	Pro	Glu	Gly 250	Gly	Phe	Asp	Ala	Ile 255	Met
Gln	Val	Ala	Val 260	Cys	Gly	Ser	Leu	Ile 265	Gly	Trp	Arg	Asn	Val 270	Thr	Arg
Leu	Leu	Val 275	Phe	Ser	Thr	Asp	Ala 280	Gly	Phe	His	Phe	Ala 285	Gly	Asp	Gly
Lys	Leu 290	Gly	Gly	Ile	Val	Leu 295	Pro	Asn	Asp	Gly	Gln 300	Суз	His	Leu	Glu
Asn 305	Asn	Met	Tyr	Thr	Met 310	Ser	His	Tyr	Tyr	Asp 315	Tyr	Pro	Ser	Ile	Ala 320
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			Glu 340					345					350		
Pro	Lys	Ser 355	Ala	Val	Gly	Thr	Leu 360	Ser	Ala	Asn	Ser	Ser 365	Asn	Val	Ile
	370		Ile			375					380				
Glu 385	Asn	Gly	Lys	Leu	Ser 390	Glu	Gly	Val	Thr	Ile 395	Ser	Tyr	Lys	Ser	Tyr 400
Cys	Lys	Asn	Gly	Val 405	Asn	Gly	Thr	Gly	Glu 410	Asn	Gly	Arg	Lys	Cys 415	Ser
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435 440 445

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Lys Lys Asp Thr Cys Thr Gln Glu Cys Ser Tyr Phe Asn Ile Thr Lys

665

670

660

Val Glu Ser Arg Asp Lys Leu Pro Gln Pro Val Gln Pro Asp Pro Val 680 Ser His Cys Lys Glu Lys Asp Val Asp Asp Cys Trp Phe Tyr Phe Thr 690 695 700 Tyr Ser Val Asn Gly Asn Asn Glu Val Met Val His Val Val Glu Asn 710 715 705 Pro Glu Cys Pro Thr Gly Pro Asp Ile Ile Pro Ile Val Ala Gly Val 725 730 735 Val Ala Gly Ile Val Leu Ile Gly Leu Ala Leu Leu Ile Trp Lys 740 745 Leu Leu Met Ile Ile His Asp Arg Glu Phe Ala Lys Phe Glu Lys 755 760 765 Glu Lys Met Asn Ala Lys Trp Asp Thr Gly Glu Asn Pro Ile Tyr Lys 770 775 780 Ser Ala Val Thr Thr Val Val Asn Pro Lys Tyr Glu Gly Lys 785 790 795 <210> 3 <211> 739 <212> PRT <213> Homo sapiens <400> 3 Met Pro Gly Lys Met Val Val Ile Leu Gly Ala Ser Asn Ile Leu Trp 1 5 10 15

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3.0

20

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Tyr	Ser	Phe 115	Pro	Lys	Asp	Pro	Glu 120	Ile	His	Leu	Ser	Gly 125	Pro	Leu	Glu
Ala	Gly 130	Lys	Pro	Ile	Thr	Val 135	Lys	Cys	Ser	Val	Ala 140	Asp	Val	Tyr	Pro
Phe 145	Asp	Arg	Leu	Glu	Ile 150	Asp	Leu	Leu	Lys	Gly 155	Asp	His	Leu	Met	Lys 160
Ser	Gln	Glu	Phe	Leu 165	Glu	Asp	Ala	Asp	Arg 170	Lys	Ser	Leu	Glu	Thr 175	Lys
Ser	Leu	Glu	Val 180	Thr	Phe	Thr	Pro	Val 185	Ile	Glu	Asp	Ile	Gly 190	Lys	Val